

Project #	Category	Rank	Type of Project	RWQCB	Recipient	Beach Name/Project Location	Estimated Total Project \$	Estimated Annual Visitors	Project Description
56	B	1	Septic to Sewer	1	Gualala Community Services District	Gualala Beach	\$ 5,100,000		Provide community sewer services to approx. 300 parcels currently on septic system. Non-treated and partially treated sewage is impacting the beach water quality.
198	B	1	Septic to Sewer	1	Sonoma County Regional Parks Department	Westside Park at Bodega Bay	\$ 560,000	400,000	This project will connect Westside Regional Park's septic system to Bodega Bay Public Utility District sewer system. Septic system is subject to failure depending on groundwater level and tides.
217	B	1	Sewer Line Replacement	2	City of Pacifica	Pacifica State Beach	\$ 550,000	200,000 - 400,000	Sewer line upgrade and switching from privately-run sewage line to publically-run sewer line; sewer line leakage and breakage enter Pedro Creek and the Pacific Ocean. Project includes restoration of six acres of tidally influenced wetlands.
42	A	1	Septic System Installation	2	East Brother Light Station, Inc. (non-profit org.)	Straits between San Francisco and San Pablo Bays	\$ 76,552		Upgrade sanitary system. Sewerage is currently discharged directly to Bay without treatment.
62	B	1	Sewer Collection System Upgrade	2	Montara Sanitary District	Fitzgerald Marine Reserve, San Mateo County	\$ 50,000	105,000	This project will replace sewer line from Nevada Street to the California Pump Station at the Fitzgerald Marine Reserve. High bacterial counts are due to sewage overflows and poor sewer line conditions. San Vicente Creek which empties into the Fitzgerald Marine Reserve has been posted most of this year.
71	A	1	Divert Urban Runoff	3	City of Pacific Grove	Monterey Bay National Marine Sanctuary	\$ 1,200,000	250,000	Expand existing CBI project to include an additional 45 acres to collect urban runoff and divert to existing stormwater collection system.
208	A	1	Reduce/Treat Urban Runoff	3	City of Santa Barbara, Creek Division	East Beach/Mission Creek	\$ 900,000		Install two treatment units along Old Mission Creek: an Ozone/UV Treatment Facility in the existing storm drain system will treat water from the Westside drain and a second facility will trap sediment, increase surface water absorption, and reduce contaminants by expanding the wetlands and riparian plants in the creek. These projects were identified as high priority in a study completed with Prop 13 CBI funds.
209	A	1	Reduce/Treat Urban Runoff	3	City of Santa Barbara, Creek Division	Arroyo Burro Beach/Arroyo Burro Creek	\$ 800,000	887,000	An Ozone/UV Treatment Unit will treat water from Mesa Creek and the existing culvert on Mesa Creek. A treatment facility will trap sediment, increase surface water absorption and reduce contaminants by expanding the wetlands and riparian plants in the creek. This project was identified as high priority in a study completed with Prop 13 CBI funds.
210	A	1	Treat Urban Runoff	3	City of Santa Barbara, Creek Division	East Beach	\$ 350,000		Add a water treatment unit (clarifier with UV disinfection) to the Laguna Channel Pumping Facility to treat urban runoff prior to discharge at East Beach. This project was identified as a high priority in a study completed with Prop 13 CBI funds.
73	A	1	Divert Urban Runoff/Retrofit Pump Station	3	City of Santa Cruz, Dept. of Public Works	Main Beach, Cowell Beach & Seabright Beach	\$ 1,000,000	3,000,000	Dry Weather Diversion and retrofit at Pump Station 1(b) and 3. Also lining of stormdrain piping. High levels of fecal coliform and other bacteria in the dry weather runoff have resulted in postings in areas near the San Lorenzo River Lagoon and river mouth.
195	A	1	Divert/Retain Urban Runoff	3	City of Seaside	Monterey State Beach (north end of Seaside section)	\$ 2,500,000	740,000	Dry weather diversion; redesign and reconstruction of the Bay Street outfall with installation of water quality improvement devices; reduction of storm water discharge with the addition of retention ponds.
91	A	1	Divert Urban Runoff	4	City of Los Angeles, Bureau of Sanitation	Will Rogers State Beach (PCH & Sunset Blvd.)	\$ 1,400,000	2,300,000	Dry weather diversion at intersection of PCH and Sunset Blvd. Project will divert low flow urban runoff to Hyperion year round. Includes remote control SCADA system. A bypass return with trash pump and collection equipment will be installed for use during wet weather periods. Duplicate a project 116 proposed by City of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.
173	A	1	Divert Urban Runoff	4	City of Los Angeles, Bureau of Sanitation	Will Rogers State Beach (Pacific Palisades)	\$ 980,000	2,300,000	Dry weather diversion at 16500 PCH in Pacific Palisades. Project will divert low flow urban runoff to Hyperion year round. Includes remote control SCADA system. A bypass return with trash pump and collection equipment will be installed for use during wet weather periods. Duplicate of project 115 proposed by County of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.
176	A	1	Divert Urban Runoff	4	City of Los Angeles, Bureau of Sanitation	Dockweiler State Beach (Vista Del Mar)	\$ 840,000	2,900,000	Dry weather diversion at 8000 Vista Del Mar. Project will divert low flow urban runoff to Hyperion year round. Includes remote control SCADA system. A bypass return with trash pump and collection equipment will be installed for use during wet weather periods. Duplicate of project 111 proposed by County of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.

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196	A	1	Divert Urban Runoff	4	City of Los Angeles, Bureau of Sanitation	Will Rogers State Beach (PCH & Coastline)	\$ 840,000	2,300,000	Dry weather diversion at PCH and Coastline. Project will divert low flow urban runoff year round. Includes remote control SCADA system. A bypass return with trash pump and collection equipment will be installed for use during wet weather periods. Duplicate of project 108 proposed by County of Los Angeles; SWRCB will work with County and City to determine best lead agency.
253	A	1	Divert Urban Runoff	4	City of Los Angeles, Bureau of Sanitation	Will Rogers State Beach (PCH & Marquez)	\$ 560,000	2,300,000	Low flow diversion at Marquez Ave. and PCH. The project will divert to Hyperion low flow urban runoff year round. Includes remote control of the system with SCADA controls. A bypass return with trash pump and collection equipment will be installed for use during wet weather periods.
98	A	1	Treat Urban Runoff	4	City of San Buenaventura	Ventura Promenade, from Surfer's Point to the Ventura Pier	\$ 1,700,000	100,000	Treat dry weather urban runoff that discharges from the City storm drain system onto the beach in Ventura County's most popular beach recreation area.
101	A	1	Divert Urban Runoff	4	City of Santa Monica	Wilshire Storm Drain Outlet (north of Santa Monica Pier)	\$ 980,000	4,500,000	Divert all dry weather urban runoff and initial wet weather stormwater from Wilshire Drainage Basin.
227	B	1	Septic System Repair	4	County of Los Angeles, Department of Beaches & Harbors	Maliby Lagoon (Surfrider) County Beach	\$ 220,500	1,800,000	Improvement and upgrades to an aging septic system located at the beach.
228	B	1	Septic System Repair	4	County of Los Angeles, Department of Beaches & Harbors	Topanga County Beach	\$ 173,000	1,000,000	Improvement and upgrades to an aging septic system located at the beach.
106	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Redondo and Torrance Beach	\$ 550,000	2,000,000	Dry weather diversion to sanitary sewer near the intersection of South Esplanade and Avenue I.
108	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Topanga Beach	\$ 550,000	2,300,000	Dry weather diversion in the Parker Mesa Drain. Duplicate of project 196 proposed by City of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.
109	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Dockweiler State Beach/EI Segundo Blvd & Whiting Street.	\$ 550,000	2,900,000	Dry weather diversion to sanitary sewer at intersection of EI Segundo Blvd & Whiting Street.
111	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Dockweiler State Beach/Culver Blvd.	\$ 550,000	2,900,000	Dry weather diversion to sanitary sewer at Culver Blvd. near Dockweiler State Beach. Duplicate of project 176 proposed by City of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.
112	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Venice Beach/Brooks Avenue	\$ 550,000	8,700,000	Modification of low flow diversion to sanitary sewer in the existing Electric Avenue pump station at Brooks Avenue.
113	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Venice Beach/Rose Avenue	\$ 550,000	8,700,000	Low flow diversion to sanitary sewer where Rose Avenue drain discharges to Venice Beach.
114	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Santa Monica Beach/Ashland Avenue	\$ 550,000	8,700,000	Dry weather diversion to sanitary sewer where the Ashland Avenue drain emptys on to Venice Beach.
115	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Will Rogers State Beach/ Pulga Canyon	\$ 550,000	2,300,000	Dry weather diversion to sanitary sewer where Pulga Canyon Drain discharges to Will Rogers Beach. Duplicate of project 173 proposed by City of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.
116	A	1	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Will Rogers State Beach/ Sunset Blvd and Pacific Coast Highway	\$ 550,000	2,300,000	Dry weather diversion to sanitary sewer near the intersection of Sunset Blvd and Pacific Coast Highway. Duplicate of project 91 proposed by City of Los Angeles; SWRCB staff will work with County and City to determine best lead agency.
174	A	1	Divert Urban Runoff	8	City of Newport Beach	Newport Bay Beaches and Newport Beach and Ocean Beach	\$ 240,000	2,000,000	Storm drain to sewer diversions (4 X \$30K each).
49	A	1	Divert Urban Runoff	8	City of Seal Beach	Seal Beach - West End Pump Station Urban Run-off Diversion System	\$ 400,000	2,100,000	West End Pump Station Urban Run-off Diversion System
55	A	1	Divert Urban Runoff	8	City of Seal Beach	Seal Beach - East End Pump Station Urban Run-off Diversion System	\$ 400,000	2,100,000	Seal Beach East End Pump Station Urban Run-off Diversion System

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138	A	1	Divert Urban Runoff	8	City of Seal Beach	Seal Beach - Marina Drive Urban Run-off Diversion System	\$ 400,000	2,100,000	Construction of a new urban run-off diversion pumping station at the Marina Drive storm drain system to local sewer system.
43	A	1	Divert Urban Runoff	9	City of Dana Point	Doheny State Beach/Dana Point - Del Obispo Storm Drain Treatment Project	\$ 1,000,000	1,543,104	Low flow diversion of urban runoff to sewer system with a CDS unit to help remove oil, grease, sediment, and trash.
44	A	1	Divert Urban Runoff	9	City of Dana Point	Capistrano County Beach - Storm Drain Master Plan Phase II Project	\$ 3,000,000	511,802	Construction of a new storm drain system including a low flow diversion and stormceptor unit to collect urban runoff along a bluff top community in Capistrano Beach.
45	A	1	Divert Urban Runoff	9	City of Dana Point	Doheny State Beach/Dana Point - San Juan Creek Low Flow Diversions Project	\$ 1,000,000	1,543,104	Construction of low flow diversions in two 54" dia. storm drains and one 42" dia. storm drain to a local sewer system for treatment.
46	A	1	Treat Urban Runoff	9	City of Dana Point	Salt Creek Beach Park/Monarch Beach - Salt Creek Storm Drain Treatment Project	\$ 3,000,000	1,857,608	Treatment unit for 1000 gpm of urban runoff in Salt Creek.
293	A	1	Divert urban runoff	9	City of Dana Point	Doheny State Beach/Dana Point	\$ 750,000	1,543,104	Low flow diversion of urban runoff from a 150-acre tributary area in the City of Dana Point.
159	A	1	Divert Urban Runoff	9	City of Del Mar	San Dieguito Lagoon & Del Mar Beach/Camino Del Mar and 27th Street	\$ 1,000,000	2,500,000	Dry weather diversion to sanitary sewer near Camino Del Mar and 27th streets.
87	A	1	Divert Urban Runoff	9	City of Laguna Beach	City of Laguna Beach "Main Beach" Pacific Ocean Coastline	\$ 500,000	3,000,000	Three dry weather diversions: one at Laguna Channel adjacent to the City corporation yard, the second at Laguna Channel outlet at PCH and Broadway, and the third at North Main Beach storm drain outlet.
137	A	1	Divert/Treat Urban Runoff	9	City of San Clemente	North Beach	\$ 500,000	600,000	Dry weather diversion of urban runoff to a treatment system and discharge treated runoff back to Segunda Deshecha flood control channel.
260	A	1	Divert Urban Runoff/Reduce Irrigation Runoff/Education/Wash Area Construction/Bird Control/Trash Reduction	9	County of Orange	Dana Point Harbor/Baby Beach	\$ 1,375,000	939,238	Divert urban runoff to sanitary sewer. Install evapotranspiration (ET) irrigation control systems at malls and residences within drainage area. Survey and repair irrigation systems to stop over-irrigation. Provide educational materials to tenants where ET systems are installed. Install wash-down basins at restaurants. Conduct an intensive sampling of local gull scat. Implement gull control measures and monitor changes. Design a trash can enclosure. Develop a beach sanitizing device to pick up or disinfect bird droppings. Remove sediment around storm drain outlet or cover with sand.
171	B	1	Sewer Collection System Upgrade	9	San Elijo Joint Powers Authority	Moonlight Beach	\$ 3,000,000	2,500,000	Rebuild an existing, 28 year old pump station. This station has caused several beach postings and closures over the years, and has become a maintenance problem for the SEJPA. The pump station is adjacent to Cottonwood Creek which empties into the ocean at Moonlight Beach.
276	B	1	Sewer Collection System Upgrade	9	South Coast Water District	Capistrano Beach	\$ 315,000		Rehabilitate old lift station at Capistrano State Park on the beach. Sewage lift station #13 @ Pacific Coast Hwy.
277	B	1	Sewer Collection System Upgrade	9	South Coast Water District	Capistrano Beach	\$ 275,000		Rehabilitate lift station in order to avoid mechanical and electrical failure. This will prevent spills onto the beach. This lift station is right on the beach.
51	B	2	Septic to Sewer	1	Sonoma County Water Agency, Sea Ranch Sanitation Zone	Sea Ranch Beaches	\$ 3,500,000	150,000	Decommission Central wastewater treatment plant and convert into wastewater pumping station with a pipeline to the North Plant which has an underutilized capacity.
283	A	2	Stormwater/Fish Waste Upgrades	2	City of San Francisco, Port of San Francisco	Aquatic Park/Fishermans Wharf	\$ 625,000	12,000,000	Stormwater/industrial wastewater upgrades to address two separate sources of discharge at Pier 45. Sources are seasonal herring water discharge from Sheds B & D apron and stormwater in the Sheds B & D apron area. Proposed enhancements would provide an integrated system to handle both types of water.
193	A	2	Septic System Repair	2	County of Marin, Environmental Health Services	Tomaes Bay	\$ 1,550,000		Repair and upgrades to existing septic systems of homes along the eastern shoreline of Tomaes Bay.

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65	A	2	Education	2	County of San Mateo, Environmental Health Agency	Pedro State Beach & Linda Mar State Beach	\$ 400,000	161,000	Educational Outreach Program
66	A	2	Education/Study	2	County of San Mateo, Environmental Health Agency	San Vicente Creek which feeds into tohe Fitzgerald Marine Reserve	\$ 500,000	200,000	Educational Outreach Program and Sewer System Study and Design.
61	A	2	Livestock Control	2	Marin County Resource Conservation District	Tomales Bay - White House Pool Park	\$ 35,000	50,000	Construction of two water troughs, retrofit an existing water well, and installation of livestock control fencing along Lagunitas Creek on the Genazzi Ranch.
204	A	2	Livestock Control	2	National Park Services, Point Reyes National Seashore	Drakes Beach-Elephant Seal Colony	\$ 25,200	6,000	Installing a fence 100 feet from the stream channel to exclude cattle access from 500 meters of the stream. The stream is upstream from the Elephant Stream Beach. The beach is a breeding colony of Northern Elephant Seals. The fence will help reduce coliform and nutrient loading to the channel and eventually to the beach.
205	A	2	Livestock Control	2	National Park Services, Point Reyes National Seashore	Tomales Beach/Tomales Bay	\$ 21,600	2,500,000	Construct a fence to exclude cattle access to the Tomales Beach area. The fence will help reduce coliform and nutrient loading to the channel and eventually to the beach. The fence would be installed at Kehoe Dairy.
206	A	2	Restroom Construction	2	National Park Services, Point Reyes National Seashore	Sacramento Landing/Tomales Bay	\$ 65,000	2,500,000	Develop a water source and additional public bathroom at Sacramento Landing for public use. The project will develop a water system for flush toilets and a septic system. This will help eliminate one potential source of contamination.
63	A	2	Urban Runoff Reduction Pilot Study	2	San Francisco Public Utilities Commission	Westside Beaches: Ocean Beach, China Beach, Baker Beach, Ft. Funston Beach	\$ 700,000	200,000	Three year pilot project and implementation of an area-wide program of low-cost flow reduction techniques. Intent to reduce volume of stormwater flows from entering a combined sewer system.
68	A	2	BMP	3	CA Dept. of Parks & Recreation	Gaviota State Beach (Santa Barbara County)	\$ 1,150,000	200,000	Reduce NPS of pollution from highways, roads, paved surfaces, agricultural practices, septic tanks, leachfields, drywells, and land use practices in the watershed. Phase 1: planning stage; Phase 2: implementation of BMP's
69	B	2	Sewer Collection System Upgrade	3	Carpinteria Sanitary District	Carpinteria State Beach, Rincon Beach	\$ 2,407,000		Replacement and relocation of an existing 8-10 inch sewer main from edge of Carpinteria Bluffs to Carpinteria Avenue utility easment to prevent sewer main breach and spills.
52	A	2	Storm Drain Filters/Education	3	City of Carpenteria	Carpinteria City and State Beaches	\$ 250,000	1,000,000	Catch Basin filtration system for approx. 50 storm drains and public outreach campaign.
207	A	2	Constructed Wetlands/Infiltrate Urban Runoff	3	City of Santa Barbara, Creek Division	Arroyo Buro Beach/Las Positas Creek	\$ 1,150,000	887,000	Water treatment devices in two different locations within Las Positas Creek. The devices will consist of wetlands, infiltration trenches/basins, wet ponds or/and dry extended ponds. The treated creek water would flow into Arroyo Burro Creek and ultimately into Arroyo Burro Beach (1.3 miles downstream).
72	A	2	Trash Removal	3	City of Santa Barbara, Waterfront Department	East Beach at Mission Creek	\$ 27,000	650,000	Placement of a debris collection curtain on lower Mission Creek across the surface of the creek on the downstream side of the Cabrillo Blvd. bridge on the east side of Stearns Wharf.
78	A	2	Constructed Wetlands	3	County of Santa Barbara, Parks Dept.	Rincon Beach County Park	\$ 69,000	400,000	Installation of 475 feet of bioswale & storm drain filter along an existing beach park parking area.
79	A	2	Infiltrate Urban Runoff/Storm Drain Filter	3	County of Santa Barbara, Parks Dept.	Mission Creek/East Beach in Santa Barbara	\$ 65,000	200,000	Replace existing asphalt with a permeable material to decrease stormwater runoff entering Mission Creek. Installation of filtration system on one existing storm drain.
80	B	2	Sewer Collection System Upgrade	3	Santa Cruz County Sanitation District	New Brighton and Seaciff State Beaches/Aptos & Capitola	\$ 15,000,000	4,100,000	The Sanitation District will abandon in place and relocate more than 3000 feet of sewer main, renovate two pump stations, demolish a pump station and construct one new pump station.
179	A	2	Stormwater Treatment	4	City of Agoura Hills	Maliby Lagoon Beach	\$ 5,000,000	400,000	De-silting/dredging operations; upstream elevation correction and management to address flooding; installation of sediment catchments and debris basins to control the accumulation of silt and trash; the analysis and implementation of BMPs for disinfecting the lake; reinstatement and maintenance of a more natural streambed environment.
290	B	2	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Dockweiler State Beach in Santa Monica Bay	\$ 5,000,000	2,900,000	Rapir 1-mile outfall up to the springline of the outfall, repair any damaged pipe sections and protect the inshore portions of the outfall from boat anchors for the Hyperion treatment plant.

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88	B	2	Sewer Collection System Upgrade	4	City of Los Angeles, Bureau of Sanitation	Dockweiler and Venice Beach	\$ 13,000,000	11,600,000	Build a 54-inch force main to serve the City's pumping plant on Hurricane Street. The pumping plant has an existing 48-inch force main that is too small to carry the projected wet weather flows from the pumping plant. The new force main, used in conjunction with the existing force main, will increase the conveyance capacity and eliminate the chances of sewer overflows in the Venice area.
189	A	2	Bird Control Pilot Study	4	City of Los Angeles, Bureau of Sanitation	Inner Cabrillo State Beach	\$ 120,000	1,000,000	This project is a pilot study involving the use of falcons. A falconer and his birds will be employed to drive away seagulls and other marine birds. Once gone the City will monitor the beach for a decrease in coliform counts. The project is expected to require six months of planning and preparation, and should begin in July 2003.
200	A	2	Trash Removal	4	City of Los Angeles, Bureau of Sanitation	Venice Beach and Dockweiler State Beach Ballona Creek watershed	\$ 1,000,000	11,600,000	Catch basin insert project for the Ballona Creek watershed. Ballona Creek enters the ocean adjacent to Dockweiler and Venice. City will retrofit 400 storm drains in the Ballona Creek watershed with covers, baskets, or bags that will trap trash before it can enter the creek.
240	A	2	Circulation/Trash Removal	4	City of Los Angeles, Bureau of Sanitation	Playa Del Rey	\$ 990,000		A portion of the City's storm drain system is connected to Del Rey Lagoon. Overflow from the lagoon flows to Ballona Creek Estuary and Playa del Rey. The City is proposing to add trash collection devices to inlets and outlets of the lagoon, aeration to the lagoon, and constructed wetlands to clean runoff water before it enters Ballona Creek and the ocean.
245	A	2	Circulation/Trash Removal	4	City of Los Angeles, Bureau of Sanitation	Long Beach/ Echo Park Lake	\$ 990,000	4,400,000	The City of Los Angeles has several urban lakes that capture urban runoff throughout the year and eventually discharge to the ocean. The city is proposing to add trash collection devices to the inlet and outlet of each lake and some form of aeration to the lakes and constructed wetlands to complete the cleanup before this runoff water is allowed to enter the ocean.
247	A	2	Trash Removal	4	City of Los Angeles, Bureau of Sanitation	Long Beach/ LA River	\$ 2,500,000	4,400,000	Install four trash capture devices, such as CDS units and Fresh Creek's Trash Trap, on storm drains known to contribute large amounts of trash to the L. A. River. Specific drains have not been selected, although high trash areas have been identified.
248	A	2	Divert Urban Runoff (Upgrades to existing)	4	City of Los Angeles, Bureau of Sanitation	Santa Monica Bay Watershed	\$ 2,800,000	55,000,000	Upgrade 10 existing dry weather diversions to year round operation with installation of SCADA system to allow for remote operation.
251	A	2	Circulation/Trash Removal	4	City of Los Angeles, Bureau of Sanitation	LA Harbor/Inner Cabrillo/ Machado Lake	\$ 990,000		The City of Los Angeles has several urban lakes that capture urban runoff throughout the year and eventually discharge to the ocean. The city is proposing to add trash collection devices to the inlet and outlet of each lake and some form of aeration to the lakes and constructed wetlands to complete the cleanup before this runoff water is allowed to enter the ocean.
92	B	2	Sewer Collection System Upgrade	4	City of Los Angeles, Bureau of Sanitation	Will Rogers State Beach	\$ 3,000,000	2,300,000	Replace deteriorated Las Pulgas Canyon sewer pipeline and interim pumping station. The pumping station is located on Muskingham Drive in Pacific Palisades.
93	B	2	Sewer Collection System Upgrade	4	City of Los Angeles, Bureau of Sanitation	Inner Cabrillo Beach	\$ 5,000,000	1,000,000	Rehabilitate approx. 12,000 linear feet of aging and structurally deteriorated unreinforced 70 year old concrete sewers. The sewer reaches are located in the area bounded by 31st street, 22nd street, Denison Ave and Alma street.
94	B	2	Sewer Collection System Upgrade	4	City of Los Angeles, Bureau of Sanitation	Will Rogers state Beach	\$ 1,300,000	2,300,000	Replace mechanical, electrical, and control equipment past its useful life in the Temescal Canyon pumping plant no. 634. This would insure reliability and prevent future sewage spills.
254	B	2	Sewer Collection System Upgrade	4	City of Los Angeles, Bureau of Sanitation	Will Rogers State Beach	\$ 900,000	2,300,000	Upgrades Pulga Pumping Plant No. 639 located at 16500 PCH in Pacific Palisades. Remote control of the system will be possible due to state of the art SCADA controls.
123	B	2	Circulation/Bird Control	4	City of Los Angeles, Port of Los Angeles	Inner Cabirilo Beach/Los Angeles Harbor	\$ 10,000,000	300,000	Passive improvements may include modifications to San Pedro Breakwater to increase tidal circulation; additional means to control land use habits and bird population; pipeline and pumping system to provide sufficient volume of clean water from the Outer Cabrillo Beach area.
180	A	2	Study	4	City of San Beunaventura	Surfer's Knoll Beach / Santa Clara Estuary Beach / McGrath Beach (Identification of Bacterial Contamination)	\$ 75,000	300,000	Conduct three seasonal surveys to develop a more robust description of the preserve vegetation and vertebrate fauna within the preserve sub-habitats.

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181	A	2	Study	4	City of San Beunaventura	Surfer's Knoll Beach / Santa Clara Estuary Beach / McGrath Beach (Identification of Chemical Contamination)	\$ 100,000	300,000	Study of sediments, soil, groundwater, animal tissue; data and analysis; GIS maps; and statistical analysis within the Santa Clara Estuary for contaminants of concern (i.e. organochlorine pesticides, PCB Arochlors) to establish the magnitude and extend of the contaminant sink. The accomplishments gained from this project would include an area wide assessment of contaminant sinks and bio-accumulation of compounds listed as potential risks in the estuary environment.
182	A	2	Study	4	City of San Beunaventura	Surfer's Knoll Beach / Santa Clara Estuary Beach / McGrath Beach (Assessment of Preserve Biodiversity)	\$ 250,000	300,000	Develop a bio-indicator technique for discrimination between human and animal fecal impacts in surface water and soils. The work consists of development and documentation of a refined analytical technique for use of total coprostanol and its isomers as a bio-indicator of fecal sources to surface water and sediments, sampling and analysis, establishing and maintaining a database management system, and reporting results in relation to bacteriological data from NPDES monitoring.
100	A	2	Feasibility Study	4	City of San Buenaventura	Peninsula Beach, at the end of Spinnaker Drive	\$ 500,000	15,000	Identification of sources, analyze alternatives, and implement the chosen alternative. This is a "Mothers Beach" area.
102	A	2	Stormwater Treatment	4	City of Santa Monica	Centinela Project/Dockweiler-Ballona Beach	\$ 500,000	2,500,000	BMPs for storm water flows: separation-screening unit for primary stage and StormFilter device for second stage treatment.
103	A	2	Treat/Infiltrate Urban Runoff	4	City of Santa Monica	16st Project/Venice Beach	\$ 880,000	9,000,000	Treat storm drain discharge by separation/screening and infiltration.
104	A	2	Treat Urban Runoff	4	City of Torrance Engineering Dept.	Urban Santa Monica Bay Watershed, Dominguez Channel, and Los Angeles/Long Beach Harbors Watershed	\$ 1,600,000		Modification of existing detention and retention flood control basins for stormwater treatment.
219	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Nicholas Canyon County Beach	\$ 200,000	182,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking lots.
220	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Zuma County Beach	\$ 50,000	6,500,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.
221	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Point Dume State Beach	\$ 50,000	1,000,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.
222	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Malibu Lagoon (Surfrider) County Beach	\$ 40,000	1,800,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.
223	A	2	Restroom Construction	4	County of Los Angeles, Department of Beaches & Harbors	Dan Blocker Memorial County Beach	\$ 22,000	340,000	This project seeks to control potential water quality contamination from urban bacterial discharges by expanding access to on-site sanitation facilities by increasing the number of chemical toilets from two to four, as well as construction of two enclosures for these toilets.
224	A	2	Restroom Construction	4	County of Los Angeles, Department of Beaches & Harbors	Las Tunas County Beach	\$ 22,000	60,000	This project seeks to control potential water quality contamination from urban bacterial discharges by expanding access to on-site sanitation facilities by increasing the number of chemical toilets from two to four, as well as construction of two enclosures for these toilets.
225	B	2	Septic System Repair	4	County of Los Angeles, Department of Beaches & Harbors	Zuma County Beach	\$ 2,076,000	6,500,000	Improvement and upgrades to an aging septic system located at the beach.
226	B	2	Septic System Repair	4	County of Los Angeles, Department of Beaches & Harbors	Point Dume State Beach	\$ 519,000	1,000,000	Improvement and upgrades to an aging septic system located at the beach.
244	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Topanga County Beach	\$ 95,000	1,000,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.
246	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Isadore B. Dickweiler State Beach	\$ 75,000	3,000,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.
249	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Point Vicente County Fishing Access	\$ 30,000		Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.

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250	A	2	Infiltrate Urban Runoff	4	County of Los Angeles, Department of Beaches & Harbors	Wil Rogers State Beach	\$ 2,320,728	3,000,000	Infiltrate runoff from Pacific Coast Highway and adjoining beach parking lots along a 3-mile stretch of PCH.
269	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Marina Del Rey	\$ 1,260,000	187,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.
270	A	2	Construct Vessel Pumpout Stations	4	County of Los Angeles, Department of Beaches & Harbors	Marina Del Rey (various anchorages marina-wide)	\$ 200,000	187,000	Addition of 8 vessel pumpout stations at strategic locations within Marina del Rey. These would increase public access and decrease dumping of vessel waste in the marina water.
271	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Marina Del Rey (restaurant sewer diversion project: Fisherman's Village)	\$ 375,000	187,000	Redirecting restaurant washdown area drains to sanitary sewer and BMPs to eliminate incidental discharges of garbage and restaurant wastewater to receiving waters.
272	A	2	BMP	4	County of Los Angeles, Department of Beaches & Harbors	Marina Del Rey (restaurant sewer diversion project: Marina Beach)	\$ 500,000	187,000	Redirecting restaurant washdown drains to sewer and BMPs to eliminate incidental discharges of garbage and restaurant wastewater to receiving waters. Consolidated sewer connections for four restaurants.
273	A	2	Trash Reduction/Handling	4	County of Los Angeles, Department of Beaches & Harbors	Los Angeles County (various)	\$ 912,000	49,000,000	Implementation of comprehensive program for covered beach trash cans throughout 21 public beaches in LA County to reduce trash and blowing debris on beaches and in adjacent receiving waters and to reduce food source for birds and other vermins that contribute to water quality. Implementation of Beach Recycling Centers at five County-owned beaches (Zuma, Will Rogers, Dockweiler, Manhattan, and Torrance) to reduce waste going to landfill and reduce quantity of trash and blowing debris found on beaches and in adjacent receiving waters.
201	A	2	Education	4	County of Ventura, Harbor Department	Channel Island Harbor	\$ 18,000		Purchase of traveling and stationary aquaria, touch tanks, and time lapse video equipment to demonstrate to the public the filtering capabilities of common filter feeders such as clams, oysters, etc. Educational signs, demonstrations, and handouts are part of this program.
202	A	2	In Place Biological Water Treatment	4	County of Ventura, Harbor Department	Channel Island Harbor	\$ 107,000		Spawning and planting filter feeders to remediate beach contamination.
203	A	2	Study/Education	4	County of Ventura, Harbor Department	Channel Island Harbor	\$ 3,000		Identify, catalogue, photograph, and preserve sample specimens of all filter feeders in Channel Islands Harbor. Public education program.
215	A	2	In Place Biological Water Treatment	4	County of Ventura, Harbor Department	Channel Island Harbor	\$ 28,000		Optimization of filter feeder attachment sites. A contractor will purchase supplies such as rope, weights, baskets, and will involve community in placing these items off docks, walls, etc. throughout the Harbor.
218	A	2	Bird Control	4	County of Ventura, Harbor Department	Channel Island Harbor	\$ 14,000		Utilizing dock dogs for bird diversion. At least two dogs will be trained to patrol the dock, making site undesirable for resting and feeding by sea birds.
126	A	2	BMP	4	Ventura County Flood Control District	Channel Islands Beach Park (Kiddie & Hobie Beaches)	\$ 500,000	11,000	Implementation of BMP's for the Oxnard West Drain (3.18 mile-long concrete channel)
127	A	2	Circulation	8	Battelle Memorial Institute	Huntington State Beach - Department of Parks & Recreations	\$ 570,000	2,000,000	Install oxygenation and mixing equipment.
130	A	2	Trash Removal from Urban Runoff	8	City of Huntington Beach	Huntington Beach Central Park - Huntington Harbour, Anaheim Bay & Outer Bolsa Chica Bay	\$ 700,000		Installation of CDS units.
131	A	2	Monitoring/Study	8	City of Huntington Beach	Coastline from Seal Beach to Newport Beach & Huntington Harbour, Anaheim Bay & Outer Bolsa Chica	\$ 2,000,000		Conduct pump station water quality monitoring; conduct source tracking activities; clean pump station forebays and components; explore pollutant removal treatment opportunities; implement a pilot program at a pump station incorporating recommendations and processes from the study.
175	A	2	Storm Drain Filters	8	City of Newport Beach	Newport Bay Beaches and Newport Beach and Ocean Beach	\$ 240,000	2,000,000	Installation of storm drain inlet guard/AbTech filter combinations.
139	A	2	Irrigation Runoff Reduction	8	City of Seal Beach	Seal Beach - Evapo Transpiration Irrigation Controller System	\$ 175,000	2,100,000	Evapo Transpiration irrigation controller system for all City irrigation controllers to reduce urban runoff.

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140	A	2	Storm Drain Filters/Trash Removal	8	City of Seal Beach	Seal Beach - First Street Parking Lot BMP - Open Graded Asphalt	\$ 450,000	2,100,000	Reconstruct parking lot with open graded-asphalt graded to drain towards catch basin filters and a CDS unit.
141	A	2	Trash Removal	8	City of Seal Beach	Seal Beach - Marina Drive Storm Drain CDS Unit	\$ 200,000	2,100,000	Continuous Devlection Separation system for storm drain system at Marina Drive.
142	A	2	Trash Removal	8	City of Seal Beach	Seal Beach - San Gabriel River Debris Boom/Net	\$ 400,000	2,100,000	Construction of a trash debris boom on the San Gabriel River.
143	B	2	Sewer Collection System Upgrade	8	City of Seal Beach	Seal Beach - Anaheim Bay Sewer Force-Main Abandonment Project	\$ 1,500,000	2,100,000	Design and construction of a new sewer pump station and new force main at Sunset Aquatic Park.
144	B	2	Sewer Collection System Upgrade	8	City of Seal Beach	Seal Beach - Sewer Main Repair in the Coastal Plain	\$ 4,500,000	2,100,000	Design and construction of a rehabilitated sewer system in the coastal plain area.
145	A	2	Habitat Restoration	8	City of Seal Beach	Seal Beach - Hellman Wetlands Freshwater Marsh Restoration	\$ 1,000,000	2,100,000	Wetlands restoration project. Overall project cost is \$2,200,000, but the City is requesting \$1,000,000 in CBI funds.
256	A	2	BMP/Study	8	County of Orange	Harbor Patrol Beach	\$ 216,000		Purchase self-closing trash can covers, remove equipment deficiencies at vessel pump out station, reconstruct storm drain and inlet, and hire consultant to review deficiencies at Harbor Patrol Beach.
257	A	2	Constructed Wetlands	8	County of Orange	Bolsa Bay	\$ 500,000		Construct a wetland on a 48.8-acre parcel adjacent to channel upstream from Bolsa Bay. The wetland will treat low flows from the East Garden Grove Wintersburg Channel. Currently, a Trust is working to acquire the parcel. Bolsa Bay contains the largest coastal salt marsh preserve which is the home to endangered and other birds.
258	A	2	Constructed Wetlands	8	County of Orange	Huntington Harbour	\$ 1,000,000	83,510	Convert a portion of the Haster Retarding Basin to an engineered, constructed wetland to treat low flow urban runoff coming into the basin. The Haster Retarding Basin serves as a flood control facility and lies in-line with the East Garden Grove-Wintersburg Channel that drains to Huntington Harbour and the Bolsa Chica Ecological Reserve
259	A	2	Constructed Wetlands	8	County of Orange	Huntington Harbour/Anaheim Bay/Seal Beach	\$ 400,000		Construct a wetland treatment system parallel to and adjacent to the Bolsa Chica Channel. Construct a diversion structure at the bottom of the channel to divert low flow urban runoff via a wet well structure to the wetland. Bolsa Chica Channel flows into the Huntington Harbour-Anaheim Bay.
262	A	2	Sewage Spill Reduction Plan/Study/Source Reduction Measures	8	County of Orange	Newport Bay/San Diego Creek	\$ 1,600,000	130,000	Preparation and initial implementation of a plan to reduce sanitary sewage spills to the Bay; performance of a comprehensive diffuse source identification survey in Newport Bay, development of a plan for implementing TMDL-mandated source reduction measures through site-specific structural corrections or diffuse source control programs.
263	A	2	Treat Urban Runoff	8	County of Orange	Seal Beach/Long Beach Marina	\$ 1,000,000	1,500,000	Construct a natural 15-acre treatment system in the existing Los Alamitos Retarding Basin to treat the low flow urban runoff coming into the basin. The project site is located one mile from the San Gabriel River ocean outlet.
265	B	2	Septic to Sewer	8	County of Orange	Santa Ana River/Newport and Huntington Beach	\$ 4,000,000	3,000,000	Upgrade Irvine Regional Park's sewage collection piping and converting it to a public sanitary sewer system. The current system is on-going maintenance problems and is at the end of its useful life. Water from the park discharges into Santiago Creek, then to Santa Ana River, and eventually to Newport and Huntington Beaches.
274	A	2	Levee Improvements	8	County of Orange	Bolsa Chica Lowlands, Bolsa Chica State Beach	\$ 8,000,000		Levee improvements to the 4200-foot segment of East Garden Grove-Wintersburg Channel between Outer Bolsa Bay and 4200 feet northerly of Outer Bolsa Bay.
197	B	2	Sewer Collection System Upgrade	8	Garden Grove Sanitary District	Portofino Cove Marina, Sunset Aquatic Marina, Huntington Harbor, Huntington Beach	\$ 650,000	800,000	Replace an existing 8-inch sewer line that drains a large area with a 12-inch sewer line to provide adequate peak wet weather capacity to prevent the chance of sewer spills that cause beach closures.

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50	A	2	Irrigation Runoff Reduction	8	Irvine Ranch Water District	Newport Bay, Corona Del Mar, Little Corona, Newport Coast, Crystal Cove, Aliso Creek Beach, Newport Dunes	\$ 3,000,000	250,000	Reduce home & commercial landscape water runoff w/ ET controllers. Irrigation controllers for landscape irrigation for 4500 homes and 1000 commercial landscapes.
190	B	2	WWTP Upgrades	8	Orange County Sanitation District	OSCD Plant #1 (Fountain Valley) and Plant #2 (Huntington Beach)	\$ 5,000,000	19,000,000	Construction of two new sodium hypochlorite facilities, and refurbishment of one existing sodium hypochlorite facility, to reduce levels of bacteria leaving the OSCD ocean outfall three miles offshore.
191	B	2	WWTP Upgrades	8	Orange County Sanitation District	OSCD Plant #1 (Fountain Valley) and Plant #2 (Huntington Beach)	\$ 24,500,000		Corrosion Management Program: field investigations of piping systems and structures; evaluation of alternative corrosion protection systems; planning, design and construction of new pipes and structures.
147	A	2	Divert/Treat Urban Runoff	8	Surfrider Foundation, Newport Beach Chapter	Santa Ana River - Southern portion of Huntington State Beach & northern portion of Newport Beach	\$ 2,469,005	2,100,000	Greenville Banning Channel handles most of the City of Costa Mesa's urban runoff. This project is planning on diverting this water into a series of biofiltration ponds and discharge water back into the river.
149	A	2	Circulation	9	Battelle Memorial Institute	Mission Bay West - Dept. of Parks & Recreations	\$ 705,000	1,000,000	Install oxygenation and mixing equipment.
188	A	2	Constructed Wetlands	9	City of Aliso Viejo	Aliso Beach	\$ 102,690	984,000	Convert an existing storm drain detention basin into a wetlands to reduce bacterial loading to Wood Canyon Creek and Aliso Creek; Aliso Creek discharges to Aliso Beach.
151	B	2	Sewer Collection System Upgrade	9	City of Carlsbad, Department of Public Works Engineering	Carlsbad State Beach/Buena Vista Lagoon	\$ 1,040,000	1,500,000	Rehab and replacement of the sewer lift station and its accessories adjacent to the Buena Vista Lagoon. The City will replace 300 feet of influent pipeline, construct a self cleaning wet well with three new pumps, and install 2100 feet of 8 inch force main.
154	A	2	Monitoring	9	City of Coronado	Coronado, Pacific Ocean, and San Diego Bay	\$ 130,000	1,500,000	Installation of an off shore monitoring buoy for measuring water quality.
155	A	2	Wash Area Construction	9	City of Coronado	Coronado, Pacific Ocean, and San Diego Bay	\$ 60,000	1,500,000	Construction of two boat/vehicle wash off areas that will drain to the sewer system.
86	A	2	Divert Urban Runoff	9	City of Laguna Beach	City of Laguna Beach Pacific Ocean coastline	\$ 700,000	3,000,000	Dry weather diversion to sanitary sewer with Continuous Deflection Separation (CDS) unit for oil and grease removal.
168	A	2	Study	9	City of San Diego, Port of San Diego	Shelter Island Shoreline Park	\$ 130,000		Source Investigation Study/Modeling
167	A	2	Enforcement/Study	9	City of San Diego, Storm Water Pollution Prevention Program	Shelter Island Shoreline Park/Beach, San Diego Bay	\$ 125,000		Investigate and abate sources of bacteria from moored boats and abandoned underground infrastructure. Conduct an advanced review of past monitoring data & observations.
261	A	2	Reduce Irrigation Runoff/Education	9	County of Orange	San Juan Creek Outlet/Dana Point	\$ 950,000	900,000	Install evapotranspiration (ET) irrigation control systems at desired locations within the San Juan Creek watershed. Survey and repair irrigation systems as necessary to stop over-irrigation. Provide information and educational material to tenants where the ET controllers are being installed. The project will help eliminate dry weather urban runoff.
264	B	2	Septic to Sewer	9	County of Orange	San Juan Creek Outlet/Dana Point	\$ 4,000,000	900,000	Convert the septic tanks and leach fields at O'Neil Regional Park to a public sanitary sewer system. The current system is 40 years old with on-going maintenance problems. The new sewer system would stop sewage overflow and septic seeps.
266	B	2	Sewer Collection System Upgrade	9	County of Orange	Dana Point Harbor	\$ 655,000	68,000	Replacing approximately 4,000 linear feet of aging sewer lines located approx. 50 feet of the quaywall/buckhead at the West Basin and the East Basin. The sewer lines are 30 years old.
268	A	2	Vessel Pumpout Standards/Education	9	County of Orange	Dana Point Harbor, Newport Bay, Huntington/Sunset Harbor	\$ 950,000	2,855,000	Development of design and installation standards for vessel sewage pumpout facilities that are proposed to be adopted County-wide by local agencies. Boater education and implementation of standards at the fourteen publically owned pump out facilities.

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275	A	2	Sewer Collection System Upgrade	9	Old Mill Pond Homeowners Association	Capistrano Beach	\$ 310,000		Upgrade/improve the Old Mill Pond existing sewer collection system. Existing 1977 sewer line made of segmented clay pipe is deteriorating and may have tree root intrusion.
169	A	2	Constructed Wetlands	9	Riverview Water District	Dog Beach	\$ 806,246	14,000	Retention wetlands to capture urban runoff and slowly discharge back into San Diego River.
279	B	2	Monitoring System for Sewers	9	South Coast Water District	Dana Point/South Laguna Beach/Capistrano Beach	\$ 588,000		Installation of telemetry system to detect failures in sewer system to reduce sewer spills to beaches.
178	A	3	Study/Education/Septic System Repairs/BMP	1	Community Clean Water Institute	Salmon Creek Beach	\$ 300,000	50,000	Source identification; educational workshops; subsidized septic improvements to targeted residences; identify and correct pollution from storm drains and runoff from roads, culverts, drainage ditches, and other sources that affect the lagoon and beach.
177	B	3	Septic to Sewer	1	County of Sonoma	Monte Rio Beach	\$ 11,000,000	30,000	Connect approx. 470 residences currently on substandard septic systems in Monte Rio Community to public collection, treatment, and disposal system. County is requesting \$3.2 M in CBI funds as part of overall project cost of \$11 M.
58	A	3	Restroom Construction	1	Monte Rio Recreation & Park District	Russian River at Monte Rio	\$ 85,000	30,000	Upgrade approximately 10 public restrooms, which are over 20-years old, for more effective waste treatment and to decrease overall use of water. Also to add a public shower to beach area.
59	B	3	Sewer Collection System Upgrade	2	City of Half Moon Bay	Half Moon Bay and Beaches closest to the mouth of the Pilarcitos Creek	\$ 135,000		Sewer line construction and restoration.
64	B	3	Septic to Sewer	2	County of San Mateo, Environmental Health Agency	Pescadero State Beach & Pescadero Creek	\$ 6,075,000	200,000	Connect approx. 110 homes currently on septic systems to the sanitary sewer.
255	A	3	Divert Urban Runoff	4	City of Rancho Palos Verdes, Public Works Dept.	Redondela Drive & Western Ave.	\$ 186,000		Dry weather diversion system for a 96 inch and a 60 inch storm drain line.
107	A	3	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Hermosa Beach/Pier Avenue & Hermosa Avenue	\$ 550,000	2,800,000	Dry weather diversion to sanitary sewer in the Pier Avenue Drain.
110	A	3	Divert Urban Runoff	4	County of Los Angeles, Department of Public Works	Dockweiler State Beach/Westchester Parkway	\$ 550,000	2,900,000	Dry weather diversion to sanitary sewer in Westchester Parkway near Dockweiler State Beach.
117	A	3	Infiltrate Urban Runoff	4	County of Los Angeles, Department of Public Works	Long Beach/LA River	\$ 3,000,000	4,400,000	Infiltration project in the L. A. River between Wardlow and Willow Streets approx. 4 1/2 miles upstream from affected beaches. One mile section of soft bottomed channel would be rebuilt to incorporate water retention features that would collect, filter, and percolate dry weather and small storm flows.
128	A	3	Divert Urban Runoff	8	City of Costa Mesa	Newport Bay	\$ 450,000	5,520	Dry Weather Diversion of 84" storm drain line at Bristol Street, north of Paularino Ave.
129	A	3	Divert Urban Runoff/Constructed Wetlands	8	City of Huntington Beach	Huntington Harbour, Anaheim Bay & Outer Bolsa Chica	\$ 4,000,000	950,000	Inflatable dam will divert low flow urban runoff to a Natural Treatment System - East Garden Grove Wintersburg Channel; constructed vegetative filter (wetlands) area.
146	B	3	Septic to Sewer	8	County of Orange Public, Facilities & Resources Department	Orange County Unincorporated Islands	\$ 13,100,000		Connect 683 septic tank users in unincorporated parts of the County to the sanitary sewer system.
152	B	3	Sewer Collection System Upgrade	9	City of Carlsbad, Department of Public Works Engineering	Carlsbad State Beach Agua Hedionda Lagoon	\$ 1,225,000	1,500,000	The sewer interceptor on the north east side of the lagoon is in need of upgrades and protection from failure caused by erosion. A gabion wall structure will be built to protect and hide the interceptor pipe. This wall will allow the maintenance road, lost to erosion, to be rebuilt and protected from future damage. This project would prevent abandonment of the existing interceptor line.
156	A	3	Divert Urban Runoff	9	City of Del Mar	Del Mar Beach - 17th Street Low Flow Diversion	\$ 800,000	2,500,000	Dry weather diversion to sanitary sewer. CDS unit to remove trash, debris, and sediment.
157	A	3	Divert Urban Runoff	9	City of Del Mar	Del Mar Beach/San Dieguito Lagoon - 27th Street Low Flow Diversion	\$ 500,000	2,500,000	Divert low flow urban run-off to local sewer for treatment. Prevent urban runoff from being discharged into San Dieguito Lagoon.

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158	A	3	Divert Urban Runoff	9	City of Del Mar	Del Mar Beach/17th street	\$ 1,500,000	2,500,000	Divert urban runoff to sanitary sewer from 8ft. X 3ft. drainage channel. The diversion with CDS unit sized to accommodate first flush will be installed along 17th Street.
160	B	3	Sewer Collection System Upgrade	9	City of Del Mar	Del Mar Beach - 21st Street Low Flow Diversion	\$ 3,000,000	2,500,000	Rebuild existing 21st Street sewer pump station to prevent likelihood of sewer overflows.
161	B	3	Sewer Collection System Upgrade	9	City of Del Mar	San Dieguito Lagoon & Del Mar Beach/Camino Del Mar and 21st Street	\$ 3,000,000	2,500,000	Rebuild/replace sewage pumping station near Camino Del Mar and 21st Street. The pump station is 30 years old, and emergency storage capacity at the pump station is limited to one to two hours of flow. Sewage overflows at the station are discharged to San Dieguito Lagoon and the ocean. Despite regular maintenance and upgrades performed by the City, the corrosive environment and age are forcing replacement of this facility.
163	A	3	Bird Control	9	City of Oceanside, Harbor & Beaches Dept.	Oceanside Pier	\$ 50,000	2,000,000	Place netting under Pier to prevent pigeons from nesting; pigeon trapping
170	B	3	Sewer Collection System Upgrade	9	San Elijo Joint Powers Authority	San Elijo and Cardiff State Beaches	\$ 2,500,000	2,500,000	Rebuild an existing, 29 year old pump station. The station has not yet caused a beach posting or closure, but has become a maintenance problem for the SEJPA. The pump station is adjacent to San Elijo Lagoon, and would contaminate the lagoon and two beaches if it failed.
294	B	3	Sewer System Rehabilitation	9	San Elijo Joint Powers Authority	San Elijo Lagoon, San Elijo State Beach, and Cardiff State Beach	\$ 3,000,000	2,500,000	Rebuild an existing Solana Beach Sewer Pump Station. Pump station conveys raw sewage collected from the City of Solana Beach to the San Elijo Joint Powers Authority San Elijo Water Reclamation Facility.
280	B	3	Monitoring System for Sewers	9	South Coast Water District	Various Beaches throughout the District	\$ 650,000		Placement of 25 wireless monitoring stations connected to an alarm/warning system. The units will be placed at "high risk" sites to detect sewer line blockages and prevent sewage spill/overflow that could affect public beaches.
281	B	3	Sewer Collection System Upgrade	9	South Coast Water District	Laguna Beach	\$ 614,000	3,000,000	Replace and upgrade mechanical and electrical equipment. Replace two 220 hp centrifugal pumps and motors and enlarge wet wells.
57	A	4	Habitat Restoration/Education	1	Mendocino Land Trust	Big River Beach	\$ 117,600	500,000	Installation of wooden barricades, recontouring and revegetation of unregulated parking area, debris removal from wetlands area, removal of invasive non-native plants from wetlands areas, and installation of interpretive signs.
60	A	4	Habitat Restoration	2	City of Novato	San Pablo Bay	\$ 4,500,000		Restore 3,700 linear foot section of Pacheco Creek, know as Lower Reach.
67	A	4	Education/Trash Reduction	2	County of San Mateo, Environmental Health Agency	San Mateo County Beachfront and Public Beaches	\$ 200,000		Educational outreach program and installation of trash bins at trail heads and beach access points.
284	A	4	Monitoring	2	Surfrider Foundation, San Mateo Chapter	San Mateo County Mid-Coast Area State Beaches	\$ 60,000		Set-up and operate a water quality testing laboratory.
285	B	4	Sewer Repair/Extension of Outfall	3	Avila Beach Community Services District	Avila Beach	\$ 150,000	800,000 to 1,200,000	Repair and extension of a 12-inch steel pipeline dedicated to the discharge of treated wastewater from the Avila Beach Communities Services District and Port San Luis Harbor District. Replace damaged marine outfall line with an new outfall terminus and new diffuser. An additional 500 feet of offshore pipeline will be added to eliminate the current release of wastewater effluent into the near shore waters of Avila Bay.
287	A	4	Septic/Sanitary System Repair/Upgrades	3	CA Dept. of Parks & Recreation	El Capitan State Beach	\$ 1,500,000	225,000	Upgrade/repair existing restroom/sanitary system infrastructure. Existing system built back in the 1970's
194	A	4	Monitoring/Study	3	Central Coast Long-Term Environmental Assessment Network (CCLEAN)	Greater Salinas River & Greater Morro Bay drainage regions	\$ 750,000	50,000	Primary objective is to monitor wastewater and beach dwelling or intertidal invertebrates at or near public beaches for bacterial contamination and pathogenic parasites via culture and DHNA amplification techniques. Two years of sampling and one year of implementation.
70	A	4	Restroom Construction	3	City of Carmel-by-the-Sea	Carmel Beach	\$ 700,000	250,000	Construction of two new restrooms at Carmel Beach that will be connected to the existing sewer system.
211	A	4	Feasibility Study	3	City of Santa Barbara, Creek Division	East Beach/Sycamore Creek	\$ 500,000		Conduct a watershed feasibility study to select and prioritize water treatment BMPs for reducing bacterial pollution in the Sycamore Creek Watersheds. Install two water quality improvement projects that treat dry weather runoff using pre-treatment technologies in combination with low-flow diversion to the sanitary sewer and on-site treatment methods.

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74	A	4	Cost Sharing/Education	3	Coastal San Luis Resource Conservation District	Pismo & Oceano Beaches	\$ 608,900	2,700,000	Three years of technical assistance and cost-sharing funds for landowners to install BMPs on private land and associated educational classes. Landowners will implement and maintain BMPs such as fencing, improved grazing systems, tree planting, fish stream improvements, vegetative buffer strips, and cover cropping.
47	A	4	BMP/Treat Urban Runoff/Constructed Wetlands	3	County of Monterey, Dept. of Public Works	Moss Landing/Pacific Coast/Monterey Bay	\$ 2,900,000		Runoff water collection, treatment and discharge system for Moss Landing Road. Redirection of runoff to a constructed wetlands area will be via pump station. Also, BMP's could include water quality inlets, treatment vaults, litter collection, oil/grit separators, filtration systems, street sweeping, public education, and catch basin maintenance.
48	A	4	BMP/Treat Urban Runoff/Constructed Wetlands	3	County of Monterey, Dept. of Public Works	Moss Landing/Pacific Coast/Monterey Bay	\$ 1,400,000		Provide a storm water collection, treatment and discharge system for a critical section of Sandholdt Road. The existing storm drain system will be replaced and enlarged. Pollutants and sediment will be reduced through installation of curbs/gutters and BMPs. BMPs could include: water quality inlets, treatment vaults, litter collection, oil/grit separator, filtration systems, street sweeping, and catch basin maintenance.
53	A	4	Land Acquisition/Livestock Control	3	Elkhorn Slough Foundation	Elkhorn Slough/Moss Landing State Beach	\$ 7,000,000		Implementation of Elkhorn Slough Watershed Conservation Plan; acquisition of 1432 acres of land; reduction of fecal matter from chicken and cattle ranches.
212	A	4	Land Acquisition/Habitat Restoration	3	Elkhorn Slough Foundation	Elkhorn Slough National Estuarine Research Reserve	\$ 1,000,000	20,000	Acquisition of 1,238 acres of floodplain property along the Moro Cojo drainage to enable the implementation of storm water and runoff pollution reduction. This project will be the final phase of restoring the core of the Moro Cojo Slough. The waters from the slough eventually empty into the Monterey Bay National Marine Sanctuary.
213	A	4	Land Acquisition/Habitat Restoration/Livestock Control	3	Elkhorn Slough Foundation	Elkhorn Slough	\$ 6,000,000	20,000	Acquire an additional 1,432 acres of land adjacent to the existing protected land in the Elkhorn Slough watershed. Agriculture on steep slopes and in the 100-year floodplain will be retired and restored to natural habitat. The remaining agriculture will be managed including the establishment of buffer strips and sediment basins, implementation of row alignment, and switching to crops using organic cultivation where possible. In addition, a chicken ranch and cattle grazing area will be removed.
75	A	4	Education	3	Land Conservance of San Luis Obispo County	Avila Beach and Port San Luis	\$ 15,000	1,000,000	Storm Drain Stenciling and marking in downtown area of San Luis Obispo.
76	A	4	WWTP Property Acquisition	3	Los Oso Community Service District	Morro Bay Estuary, Estero Bay, Montana De Oro State Beach	\$ 3,000,000		Acquisition of property that will be the location of a proposed wastewater treatment facility. The proposed treatment facility is being funded through the SRF program and bonds.
77	A	4	Study/Education	3	Monterey Bay Sanctuary Foundation	Monterey Peninsula	\$ 1,816,000	5,000,000	Sewer line diagnostics and repairs (City of Monterey); televising entire sewage collection system infrastructure and flow monitoring analysis (City of Pacific Grove); Genetic source identification (Monterey Bay Sanctuary Foundation and Monterey County); educational component
199	A	4	Livestock Control	3	Morro Bay National Estuary Program	Morro Bay	\$ 290,000	75,000	Reduction of bacterial contamination of Chorro Creek and Morro Bay through implementation of a rest/rotational grazing management program along with control of erosion source areas and restorationof riparian areas. Conversion of open rangeland into approx. 15 smaller pastures for cattle rotation. This project will also include development of water sources, construction of storage tanks, piping, and water troughs.
214	A	4	Habitat Restoration	3	Moss Landing Marin Laboratories	Moss Landing	\$ 500,000	80,000	Next phase of the Moro Cojo Slough Mangement and Enhancement Plan where stormwater and runoff pollution reduction and prevention will be implemented with best management practices by completing the restoration of the Moro Cojo Slough. The Mojo Cojo Slough drains directly into the Moss Landing Harbor, which empties into the coastal waters at Monterey Bay.
81	A	4	Habitat Restoration	3	State Coastal Conservancy	Morro Bay National Estuary	\$ 1,200,000	500,000	Revegetation of 20-acres of Los Osos Creek to reduce sediments & nutrient loads to Morro Bay.
82	A	4	Habitat Restoration/Drainage Improvements	3	State Coastal Conservancy	Watsonville Slough, Pajaro River Lagoon, Sunset & Zmudowski State Beaches	\$ 1,000,000	600,000	Wetlands restoration and agricultural drainage improvement.
83	A	4	Habitat Restoration/Livestock Control	3	State Coastal Conservancy	Larkin Valley, Pajaro River Lagoon, Sunset and Zmudowski State Beaches	\$ 500,000	600,000	Gully repair and livestock exclusion project in Larkin Valley.

Project #	Category	Rank	Type of Project	RWQCB	Recipient	Beach Name/Project Location	Estimated Total Project \$	Estimated Annual Visitors	Project Description
84	A	4	Land Use Plan/Drainage Improvements/Livestock Control/Habitat Restoration	3	State Coastal Conservancy	Upper Watsonville Slough, Pajaro River Lagoon, Sunset and Zmudowski State Beaches	\$ 200,000	600,000	Establish a management plan to coordinate land use practices in upper Harkins Slough; conduct a pilot drainage improvement and gully repair project; develop manure management plan; develop plan to upgrade deficient septic systems; vegetation enhancement
85	A	4	BMP	4	CA Dept. of Parks & Recreation	McGrath State Beach and McGrath Lake (located in Ventura County)	\$ 1,200,000	204,000	BMPs such as water reuse, constructed wetlands, detention basins, vegetated buffer strips, drainage ditch/canal slope reduction, drainage ditch/canal bank treatment, aeration and filtration.
90	B	4	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Dockweiler State Beach	\$ 5,000,000	2,900,000	Repair five mile outfall of the Hyperion treatment plant.
134	B	4	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Long Beach/ Los Angeles Glendale Water Reclamation Plant	\$ 1,900,000	4,400,000	Install a 2,000 kW diesel backup generator to make the plant more reliable and reduce the possibility and severity of sewage spills.
135	B	4	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Long Beach/ Los Angeles Glendale Water Reclamation Plant	\$ 5,000,000	4,400,000	Develop design alternatives, preliminary cost estimates, and provide for the detailed design, construction, construction management, startup, commissioning, and plant optimization for replacing the existing Eimco dual media filters. The existing three media filters are near the end of their useful lives and maintenance costs and frequency are increasing.
136	B	4	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Long Beach/Donald C Tillman Water Reclamation Facility	\$ 2,500,000	4,400,000	Provide emergency backup power so that TWRP will not violate its NPDES permit in the event of a power failure.
291	B	4	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Long Beach/ Los Angeles Glendale Water Reclamation Plant	\$ 2,700,000	4,400,000	Replace the existing PLC control system network with a system similar to the system at DC providing remote monitoring and control capability (acronyms not provided)
292	B	4	WWTP Upgrades	4	City of Los Angeles, Bureau of Environmental Engineering	Long Beach.Donald C. Tillman Water Reclamation Plant	\$ 5,000,000	4,400,000	Upgrade the filters at the water reclamation plant that are approaching the end of their design life. New filters would increase the efficiency and provide better effluent quality.
89	A	4	Study	4	City of Los Angeles, Bureau of Sanitation	Santa Monica Bay	\$ 500,000	55,000,000	This project is a study to determine the quantity and sources of mercury deposition into Santa Monica Bay.
216	A	4	Circulation/Trash Removal/Constructed Wetlands	4	City of Los Angeles, Bureau of Sanitation	Long Beach/ La River Watershed	\$ 2,830,000	4,400,000	The City of Los Angeles has several urban lakes that capture urban runoff throughout the year and eventually discharge to the ocean. The city is proposing to add trash collection devices to the inlet and outlet of each lake and some form of aeration to the lakes and constructed wetlands to complete the cleanup before this runoff water is allowed to enter the ocean.
95	A	4	Restroom Construction	4	City of Malibu	Las Flores Creek Park/ Malibu	\$ 160,000	2,000,000	The City is asking for a grant for installation of a Bio-Redux type restroom in Las Flores Park. The system uses a biological process that breaks down human waste into water, nitrogen and carbon dioxide. The water produced by this process is reused for flushing. No water supply is required for normal operation of the system and no sewer lines are needed.
96	A	4	Study	4	City of Malibu	Malibu area beaches	\$ 7,000,000	13,000,000	The city is proposing a source ID and tracking study. Once complete the City would prioritize projects and try to determine the BMPs best suited to dealing with discharges to the beaches.
286	A	4	Stormwater Treatment and/or Diversion	4	City of Malibu	Marie Canyon/Amarillo Beach	\$ 1,500,000	4,000	In-situ stormwater treatment via UV and ozone disinfection devices.
97	A	4	Purchase Vactor Truck	4	City of Manhattan Beach	Manhattan Beach	\$ 230,000	5,000,000	Purchase of wastewater truck with 5-cubic yard storage to clean storm drain inlets.
99	A	4	Feasibility Study	4	City of San Buenaventura	San Buenaventura State Beach, from the Ventura Pier to Greenock Lane	\$ 1,000,000	50,000	Feasibility Study and implementation of alternatives for four urban storm drain discharges. In particular, the Kalorama and Sanjon drainage systems.
229	B	4	Septic System Repair	4	County of Los Angeles, Department of Beaches & Harbors	Nicholas Canyon County Beach	\$ 173,000	182,000	Improvement and upgrades to an aging septic system located at the beach.
252	A	4	BMP	4	County of Los Angeles, Department of Beaches & Harbors	White Point/Royal Palms County Beach	\$ 100,000	625,000	Improve or upgrade drainage system by adding Pollution Removal Devices to control runoff from public parking area.

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105	A	4	Constructed Wetlands	4	County of Los Angeles, Department of Public Works	Long Beach/Dominguez Gap Spreading Grounds	\$ 3,700,000	4,400,000	Build a wetlands site adjacent to the L. A. River south of Del Amo Blvd. Water would be diverted from the L. A. River to the wetlands to remove excessive nutrients and reduce bacteria levels in the diverted flow.
118	A	4	Trash Removal	4	County of Los Angeles, Department of Public Works	Long Beach/LA River	\$ 1,700,000	4,400,000	Reduce bacterial contamination and hazards to wildlife by installing several trash collection booms in the L. A. River. To date several booms have been tested and proven to retain more than 150 tons of trash during the rainy season.
119	A	4	Treat/Infiltrate Urban Runoff	4	County of Los Angeles, Department of Public Works	Long Beach/8133 Vineland Ave, Sun Valley, CA	\$ 3,000,000	4,400,000	Urban runoff infiltration project. Proposal suggests use of on site treatment and then infiltration to prevent contaminants from reaching L. A. River and the ocean. Sun Valley is approx. 30 miles north of the affected beach.
120	A	4	Constructed Wetlands	4	North East Trees	Santa Monica and Ballona Creek	\$ 500,000	9,000,000	Construct bio-swales in 12,000 square foot area donated by the City of L. A. Urban runoff from a five acre residential area will be channeled into the swales and the level of treatment studied for ten years.
121	A	4	Treat Urban Runoff/Education	4	North East Trees	Long Beach/ City of LA near Glendale	\$ 400,000	4,400,000	Design, install, and study end of street biofiltration units to reduce pollutants in L. A. River. Educational program in the communities of Atwater and Elysian Valley.
122	A	4	Education	4	North East Trees	Long Beach/ LA River (Doggy Waste Bags)	\$ 104,925	4,400,000	The project is a residential educational program to reduce contaminants with implementation of pet fecal waste reduction program. The project will take place in the L. A. River bikeway from Los Feliz to the confluence of the Arroyo Seco and the L. A. River. In addition to an educational manual designed for distribution at environmental fairs, 24 pet "poop bag" dispensing stations will be set up in this area.
183	A	4	Constructed Wetlands	4	North East Trees	Long Beach/LA River Watershed/City of Pasadena (Rose Bowl Parking Lot)	\$ 1,500,000	4,400,000	Construct biofiltration strips or tree planter to remove pollutants from 60 acre parking lot. The strips or planters will reduce pollutants in the Arroyo Seco, the L. A. River, and eventually the ocean.
184	A	4	Constructed Wetlands	4	North East Trees	Santa Monica Bay/Ballona Creek Watershed/Lafayette Park	\$ 3,200,000	9,000,000	Restore a portion of a stream and create a constructed wetland in empty lot south of the park; wetland will decompose bacteria and other pollutants.
185	A	4	Monitoring/Study/Constructed Wetlands	4	North East Trees	Santa Monica/Ballona Creek (Bimini Place)	\$ 500,000	9,000,000	Develop a 10-yr monitoring program that will establish efficiency rate for cleansing runoff through a vegetated surface treatment. A bio-swale project will be completed in the summer of 2003.
186	A	4	Habitat Restoration	4	North East Trees	LA River Watershed/Long Beach/City of Pasadena (Laguna Wetlands)	\$ 750,000	4,400,000	Wetland restoration project at the confluence of the creek flows from Laguna Canyon and the Arroyo Seco subwatershed. The concrete channel from the canyon to Arroyo Seco will be replaced with a wetland.
187	A	4	Trash Removal	4	North East Trees	Santa Monica Bay/Ballona Creek Wetlands (Koreatown)	\$ 500,000	9,000,000	200 artistically designed trash cans to be distributed throughout the communities of Los Feliz, East Hollywood, Silverlake, and Koreatown, which are located in the northeast region of the Ballona Creek watershed. A shortage of trash cans exist. They are often seen overflowing sometimes ending up in storm drain catch basins, and then into Ballona Creek.
230	A	4	BMP/Trash Removal/Constructed Wetlands	4	North East Trees	Arroyo Seco/Long Beach/City of Pasadena	\$ 3,500,000		BMPs to remove trash, bacteria, and nutrients from a stretch of Arroyo Seco by possibly constructing a wetlands, biofiltration, or native plant restoration. Removing trash is a current TMDL undergoing implementation in the Los Angeles River.
231	A	4	Constructed Wetlands	4	North East Trees	Long Beach/Sycamore Grove Park	\$ 1,000,000	4,400,000	Restore a portion of the North Branch stream of Arroyo Seco and create a constructed wetland to decompose bacteria and intercept trash.
232	A	4	Constructed Wetlands	4	North East Trees	Long Beach/LA River (South Gate Riparian)	\$ 2,800,000	4,400,000	Redirecting runoff from 164 acres of freeway, residential, and industrial land through a habitat restoration/seasonal biofiltration wetland before discharge to L. A. River. Wetland will reduce PAHs, PCBs, and bacteria. Project located about 14 miles from beach.
233	A	4	Infiltrate Urban Runoff	4	North East Trees	Long Beach/Griffith Park	\$ 2,500,000	4,400,000	Install permeable paving and biofiltration swales for parking lots at Griffith Park Zoo. The parking lots are adjacent to the L. A. River. Project located about 31 miles from beach.
234	A	4	Infiltrate Urban Runoff	4	North East Trees	Long Beach/City of Los Angeles (Taylor Yard)	\$ 1,000,000	4,400,000	Install permeable paving and biofiltration swales for parking lots for a mixed use development adjacent to the L. A. River. Project located about 25 miles from beach.

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235	A	4	Treat Urban Runoff	4	North East Trees	Santa Monica Bay/Ballona Creek Watershed (Arroyo Seco Golf Course)	\$ 1,400,000	9,000,000	Construct a biofiltration system to catch and filter urban runoff from a large stormdrain that already must be retrofitted due to the development of a park space. Project located about 28 miles from beach.
236	A	4	Habitat Creation/Trash Removal	4	North East Trees	Long Beach/Mt. Washington	\$ 425,000	4,400,000	Construct a seasonal stream flow channel to replace the storm control channel within the Rainbow canyon public park to allow for biofiltration, infiltration, and riparian habitat creation and to intercept trash, chemical and coliform pollutants that enter the Arroyo Seco.
237	A	4	Habitat Creation/Trash Removal/Storm Drain Filters	4	North East Trees	Long Beach/Echo Park Lake	\$ 3,000,000	4,400,000	Adding water filtration devices, developing wetland edges for filtering contaminants, adding plants and installing trash collection devices. The 16 acre lake drains into the L. A. River and eventually to Long Beach.
238	A	4	Habitat Creation/Trash Removal/Storm Drain Filters	4	North East Trees	Long Beach/Lincoln Park Lake	\$ 2,400,000	4,400,000	Improve water quality at Lincoln Park Lake by adding water filtration devices, developing wetland edges for filtering contaminants, adding plants and installing trash collection devices.
239	A	4	Soil and Groundwater Cleanup	4	North East Trees	Long Beach (undetermined industrial facilities)	\$ 1,000,000		Planning and implementing a landscape-based method, such as phytoremediation, for cleansing water and soil of heavy metals and VOCs in industrial areas of Los Angeles (zipcodes 90031,90032, 90065). The project will include three years of monitoring.
289	A	4	Treat Urban Runoff	4	North East Trees	Santa Monica Bay/Ballona Creek Watershed (Virgil Village Soccer Field)	\$ 1,400,000	1,600,000	Retrofit an existing large storm drain with a biofiltration unit. The unit will catch and filter stormwater runoff from an adjacent residential development. This project will serve as a demonstration project for the City of Los Angeles, and could encourage the City to implement other such projects to further increase the water quality of the bay and other coastal areas and watersheds.
124	A	4	Storm Drain Cleaning	4	Project Greenworks	Orange and LA county beaches from Malibu to Newport Beach	\$ 900,000		Systematically and regularly clean storm drains that empty on to the beach using water from fire hydrants and debris nets on the outlets.
125	A	4	Education	4	University of Southern California Sea Grant Program	Los Angeles County Beaches	\$ 20,000	70,000,000	Stormwater mitigation workshops for architects and developers.
267	A	4	Education	8	County of Orange	Orange County beaches, harbors, and bays	\$ 500,000		Creation of a watershed education center in an existing building at Santiago Regional Park to bring environmental awareness to the public through education and improved individual behavior.

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241	A	4	Infiltrate Urban Runoff	8	North East Trees	Seal Beach/San Gabriel River Estuary (Interpretive Center)	\$ 1,000,000	962,000	Install permeable paving and biofiltration swales to capture and cleanse sheet runoff for two proposed parking lots at San Gabriel River and Angeles National Forest Interpretive Center. The project will increase groundwater infiltration and reduce levels of contaminated urban runoff from entering the San Gabriel River, which eventually reaches Seal Beach. Project located about 36 miles from beach.
242	A	4	Infiltrate Urban Runoff	8	North East Trees	Seal Beach/San Gabriel River Estuary (BMP)	\$ 2,500,000	962,000	Biofiltration system to catch and filter stormwater runoff from the adjacent newly developed light industrial site and residential developments in the City of Azusa. Capturing and filtering this runoff will reduce trash and contamination in the San Gabriel River. The river eventually flows to Seal Beach located about 36 miles away.
243	A	4	Infiltrate Urban Runoff/Erosion control	8	North East Trees	Seal Beach/San Gabriel River Estuary (Mountain Cove)	\$ 950,000	962,000	Biofiltration system and slope stabilization to reduce pollutants from the Mountain Cove residential development in the City of Azusa. Currently the graded slopes surrounding the development are badly eroded and carry sediments into the San Gabriel River, which eventually flows to Seal Beach about 35 miles downstream.
148	A	4	Monitoring	9	Agua Hedionda Lagoon Foundation	North of City of Oceanside to Solana Beach (Approx. 26.4 beach miles in the North area of San Diego County)	\$ 300,000	8,200,000	Environmental sensing and wireless networking to identify and model the primary sources of surface water impairment and hydrologic cycle disruption.
150	A	4	Constructed Wetlands	9	City of Carlsbad, Department of Public Works Engineering	Carlsbad State Beach Agua Hedionda Lagoon	\$ 500,000	1,500,000	Retrofit an existing detention basin for use as a wetland. The wetland will treat urban runoff from the City of Carlsbad. Identification of existing detention basins that may be used for this purpose is one component of the City's Water Quality Master Plan.
153	A	4	Monitoring/Study	9	City of Carlsbad, Storm Water Protection Program	Carlsbad State Beach /Agua Hedionda Lagoon and Creek	\$ 500,000	1,500,000	This project will be performed in Agua Hedionda Lagoon and Creek. The bulk of the project will consist of monitoring, sampling and data analysis. The goal being to identify as clearly as possible the sources of contamination and which BMPs will work best to fix the problem.
192	A	4	Constructed Wetlands	9	City of Encinitas	Escondido Creek, San Elijo Lagoon, Cardiff State Beach	\$ 5,000,000	1,381,000	Constructed wetlands to remove heavy metals, bacteria and nutrients from runoff before it enters Escondido Creek and flows to Cardiff State Beach through San Elijo Lagoon.
282	A	4	Habitat Restoration/Storm Drain Filters	9	City of Encinitas	San Elijo & Cardiff State Beach	\$ 250,000	7,800,000	Replacement of existing metal pipe with a vegetated channel and storm drain filters on four inlets. The filters will reduce oil and grease and debris from entering Rossini Creek; the vegetated swale will reduce nitrogen and bacteria.
132	A	4	Repair Private Sewer Laterals	9	City of Laguna Beach	City of Laguna Beach Pacific Ocean Coastline	\$ 250,000	3,000,000	Pilot program to provide matching funds to residents and businesses to repair private sewer laterals infiltrated with roots as shown on video taken from inside city main sewer lines. Goal of program is to permanently repair 100 private sewer laterals throughout the City. 2002-Posted-8 times, 31 days, 1.8 BMD
133	B	4	Sewer Collection System Upgrade	9	City of Laguna Beach	City of Laguna Beach Pacific Ocean Coastline	\$ 2,500,000	3,000,000	Repair of an estimated 10,000 linear feet of sewer lines in the northern portions of the City of Laguna Beach.
162	A	4	Trash Removal/Education	9	City of Oceanside, Harbor & Beaches Dept.	Oceanside Small Craft Harbor & Marina, and Harbor Beach	\$ 275,000	5,003,500	Installation of 14 CDS units to storm drain system at the Small Craft Harbor area; outreach educational program
164	B	4	WWTP Upgrades	9	City of Oceanside, Water Utilities Dept.	Buccaneer Beach	\$ 100,000	None Specified	Construction of an emergency holding pond at lower end of La Salina Wastewater Treatment Plant to prevent sewage spills.
165	A	4	Trash Removal	9	City of Oceanside, Water Utilities Dept.	City of Oceanside beaches from San Luis Rey River south to Buena Vista Lagoon and border with Carlsbad	\$ 360,000	4,000,000	Installation of CDS units for stormwater & urban runoff at six storm drain outlets in the coastal zone of Oceanside.
166	A	4	Monitoring/Study/Education	9	City of Oceanside, Water Utilities Dept.	Buccaneer Beach	\$ 1,000,000		12 to 18 month monitoring program for sources of contamination; DNA ribotyping; community education/awareness program; install specific pollution control devices

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288	B	4	Grease Interceptor Program	9	South Coast Water District	South Laguna Beach/Capistrano Beach	\$ 500,000		Provide 50% of the cost of installing grease interceptors with participating restaurants. Approx. 50 interceptors at \$20,000. This will reduce blockages and help prevent sewer spills at South Laguna, Dana Point, and Capistrano Beaches.
172	A	4	Monitoring	9	UC San Diego, Scripps Institute of Oceanography	San Diego River/Mission Bay and Point Loma Outfall	\$ 1,100,000		Coastal ocean monitoring system; CODAR

\$ 395,413,946 Total AB 2534 \$ Requested

LEGEND

Project #: Unique project identification number.

Category:

A 100% Eligibility of Costs Eligible for AB 2534.

B 25% Eligibility of Costs Eligible for AB 2534; Agency may request remaining project funds from the SRF program.

Rank:

1 Projects at locations with the greatest need to reduce bacteria that will use proven techniques. (Eligible to submit application for Stage 1 funding.)

2 Projects at locations with the greatest need to reduce bacteria that will use other techniques.

3 Projects at locations with a lesser need to reduce bacteria that will use proven techniques.

4 Projects at locations with a lesser need to reduce bacteria that will use other techniques.

Type of Project: Short description of the project.

RWQCB: Regional Water Quality Control Board designation.

Recipient: Name of the agency or nonprofit organization proposing to implement the project.

Beach Name/Project Location: Name of the beach or effected area.

Estimated Total Project \$: Recipient's estimated total cost for the project.

Estimated Annual Visitors: Recipient's estimate of the number of annual visitors to the beach.

Project Description: Description of the project.